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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/825,638	04/04/2001	Timothy B. Robinson	42148/RJP/E264	3819
23363	7590 01/10/2006		EXAMINER	
CHRISTIE, PARKER & HALE, LLP			JAGANNATHAN, MELANIE	
PO BOX 7068 PASADENA, CA 91109-7068			ART UNIT	PAPER NUMBER
•			2666	
			DATE MAILED: 01/10/2006	

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)					
	09/825,638	ROBINSON ET AL.					
Office Action Summary	Examiner	Art Unit					
	Melanie Jagannathan	2666					
The MAILING DATE of this communication Period for Reply	appears on the cover sheet v	vith the correspondence addi	ress				
A SHORTENED STATUTORY PERIOD FOR RE WHICHEVER IS LONGER, FROM THE MAILING - Extensions of time may be available under the provisions of 37 CFF after SIX (6) MONTHS from the mailing date of this communication - If NO period for reply is specified above, the maximum statutory per - Failure to reply within the set or extended period for reply will, by standard property received by the Office later than three months after the meanned patent term adjustment. See 37 CFR 1.704(b).	DATE OF THIS COMMUN R 1.136(a). In no event, however, may a riod will apply and will expire SIX (6) MO atute, cause the application to become A	ICATION. reply be timely filed NTHS from the mailing date of this com BANDONED (35 U.S.C. § 133).					
Status							
1) Responsive to communication(s) filed on 2	7 October 2005.						
•	This action is non-final.						
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closed in accordance with the practice und							
Disposition of Claims							
4) Claim(s) 1-10 is/are pending in the applicat	tion.						
4a) Of the above claim(s) is/are with							
5) Claim(s) is/are allowed.							
6)⊠ Claim(s) <u>1-10</u> is/are rejected.							
7) Claim(s) is/are objected to.	7) Claim(s) is/are objected to.						
8) Claim(s) are subject to restriction an	nd/or election requirement.						
Application Papers		•					
9) The specification is objected to by the Exan	niner.						
10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.							
Applicant may not request that any objection to							
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).							
11)☐ The oath or declaration is objected to by the	e Examiner. Note the attache	ed Office Action or form PTC	J-152.				
Priority under 35 U.S.C. § 119							
 12) ☐ Acknowledgment is made of a claim for fore a) ☐ All b) ☐ Some * c) ☐ None of: 1. ☐ Certified copies of the priority documents 		§ 119(a)-(d) or (f).					
Certified copies of the priority docum							
Copies of the certified copies of the 		n received in this National S	stage				
application from the International Bu							
* See the attached detailed Office action for a list of the certified copies not received.							
Attachment(s)							
1) Notice of References Cited (PTO-892)		Summary (PTO-413)					
 Notice of Draftsperson's Patent Drawing Review (PTO-948) Information Disclosure Statement(s) (PTO-1449 or PTO/SE Paper No(s)/Mail Date) Paper No	o(s)/Mail Date Informal Patent Application (PTO-	152)				

Application Number: 09/825,638 Page 2

Art Unit: 2666

DETAILED ACTION

A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on 10/27/2005 has been entered.

Claims 1-10 are pending.

Claim Objections

1. Claim 8 is objected to because of the following informalities: on line 2, "the block switch" should be changed to "the blocking switch". Appropriate correction is required.

Claim Rejections - 35 USC § 112

- 2. The following is a quotation of the second paragraph of 35 U.S.C. 112:

 The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.
- 3. Claim 7 is rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

Claim 7 recites the limitation "the output port" in line 3. There is insufficient antecedent basis for this limitation in the claim.

Art Unit: 2666

Claim Rejections - 35 USC § 103

4. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).

5. Claims 1-10 are rejected under 35 U.S.C. 103(a) as being unpatentable over Conroy et al. US 6,459,684 in view of Schwartzman et al. US 6,888,883.

Regarding claim 1, the claimed transceiver transmitting frames over a transmission medium in frame-based communication network is disclosed by Conroy et al. by ADSL system with ADSL transceiver (Figure 3A, element 300). The claimed providing a transceiver transmit path and transceiver receive path is disclosed by

Art Unit: 2666

transmit path and receive path for ADSL terminal (Figure 6A). See column 5, lines 9-11, column 8, lines 27-29.

Conroy et al. discloses echo canceling in ADSL system. Conroy et al. does not disclose the claimed noise reduction, locating a blocking switch in transmit path, the blocking switch allowing transmit signal propagation when enabled, the claimed preventing both transmit signal propagation and circuit device noise coupling from transceiver transmit path to transceiver receive path when blocking switch is disabled and the claimed disabling the blocking switch when transceiver transmit path is not transmitting frames.

Schwartzman et al. discloses a device to reduce noise leakage from cable modem when cable modem is not actively transmitting and to properly terminate cable plant when cable modem is not in use to avoid unwanted reflections. See column 7, lines 5-20.

Schwartzman et al. discloses a cable modem (Figure 4A, element 400) with switching component (element 41) containing a series switch (element 416) and shunt switch (element 418) for transmission of data from upstream transmitter (element 406) to upstream channel; the switches can be enabled or disabled through a control line (element 412) from upstream transmitter. See column 8, lines 11-36, lines 43-62. At the time the invention was made it would have been obvious to a person of ordinary skill in the art to modify Conroy et al. with switching component of Schwartzman et al. One of ordinary skill in the art would have been motivated to do so to reduce or eliminate

Art Unit: 2666

noise leakage on an upstream channel to increase quality of upstream data transmission.

Regarding claim 2, Conroy et al. discloses a hybrid (element 620) connected to ADSL line by transformer to convert signals. See column 2, lines 33-51. Conroy et al. does not disclose the circuit device noise coupling from transceiver transmit path to receive path as also claimed in claim 6. Schwartzman et al. discloses a device to reduce noise leakage from cable modem when cable modem is not actively transmitting and to properly terminate cable plant when cable modem is not in use to avoid unwanted reflections. See column 7, lines 5-20.

Schwartzman et al. discloses a cable modem (Figure 4A, element 400) with switching component (element 41) containing a series switch (element 416) and shunt switch (element 418) for transmission of data from upstream transmitter (element 406) to upstream channel; the switches can be enabled or disabled through a control line (element 412) from upstream transmitter. See column 8, lines 11-36, lines 43-62. At the time the invention was made it would have been obvious to a person of ordinary skill in the art to modify hybrid of Conroy et al. with switching component of Schwartzman et al. One of ordinary skill in the art would have been motivated to do so to reduce or eliminate noise leakage on an upstream channel to increase quality of upstream data transmission.

Regarding claim 3, Conroy et al. discloses all of the limitations of the claim except for the claimed block switching is located proximate to transmission medium.

Schwartzman et al. discloses switching component containing a series switch (element

Art Unit: 2666

416) and shunt switch (element 418) for transmission of data from upstream transmitter (element 406) to upstream channel; the switches can be enabled or disabled through a control line (element 412) from upstream transmitter. See column 8, lines 11-36, lines 43-62. Switch component is used to prevent noise leakage from reaching upstream channel by alternating the opening and closing of the two switches depending on whether there is a signal burst. See column 8, lines 43-46. At the time the invention was made it would have been obvious to have block switching located proximate to transmission medium. One of ordinary skill in the art would be motivated to do this to prevent noise leakage from reaching upstream channel.

Regarding claims 4-5, the claimed transmission medium is a twisted pair wire which is a telephone line is disclosed by Conroy et al. by telephone line (Figure 1, element 11). See column 1, lines 36-45.

Regarding claim 6, the claimed switch apparatus for providing a transceiver transmitting frames over a transmission medium in a frame-based communications network, transceiver having a transceiver transmit path and receive path is disclosed by Conroy et al. by ADSL system with ADSL transceiver (Figure 3A, element 300) with transmit path and receive path for ADSL terminal (Figure 6A). See column 5, lines 9-11, column 8, lines 27-29.

Conroy et al. discloses echo canceling in ADSL system. Conroy et al. does not disclose the claimed noise reduction, locating a blocking switch in transmit path, the blocking switch allowing transmit signal propagation when enabled, the claimed preventing both transmit signal propagation and circuit device noise coupling from

Art Unit: 2666

transceiver transmit path to transceiver receive path when blocking switch is disabled and the claimed disabling the blocking switch when transceiver transmit path is not transmitting frames.

Schwartzman et al. discloses a device to reduce noise leakage from cable modem when cable modem is not actively transmitting and to properly terminate cable plant when cable modem is not in use to avoid unwanted reflections. See column 7, lines 5-20.

Schwartzman et al. discloses a cable modem (Figure 4A, element 400) with switching component (element 41) containing a series switch (element 416) and shunt switch (element 418) for transmission of data from upstream transmitter (element 406) to upstream channel; the switches can be enabled or disabled through a control line (element 412) from upstream transmitter. See column 8, lines 11-36, lines 43-62. At the time the invention was made it would have been obvious to a person of ordinary skill in the art to modify Conroy et al. with switching component of Schwartzman et al. One of ordinary skill in the art would have been motivated to do so to reduce or eliminate noise leakage on an upstream channel to increase quality of upstream data transmission.

Regarding claim 7, Conroy et al. discloses a hybrid (element 620) connected to ADSL line by transformer to convert signals. See column 2, lines 33-51. Conroy et al. does not disclose the circuit device noise coupling from transceiver transmit path to receive path as also claimed in claim 6. Schwartzman et al. discloses a device to reduce noise leakage from cable modem when cable modem is not actively transmitting

Art Unit: 2666

and to properly terminate cable plant when cable modem is not in use to avoid unwanted reflections. See column 7, lines 5-20.

Schwartzman et al. discloses a cable modem (Figure 4A, element 400) with switching component (element 41) containing a series switch (element 416) and shunt switch (element 418) for transmission of data from upstream transmitter (element 406) to upstream channel; the switches can be enabled or disabled through a control line (element 412) from upstream transmitter. See column 8, lines 11-36, lines 43-62. At the time the invention was made it would have been obvious to a person of ordinary skill in the art to modify hybrid of Conroy et al. with switching component of Schwartzman et al. One of ordinary skill in the art would have been motivated to do so to reduce or eliminate noise leakage on an upstream channel to increase quality of upstream data transmission.

Regarding claim 8, Conroy et al. discloses all of the limitations of the claim except for the claimed output port of blocking switching is locatable proximate to transmission medium. Schwartzman et al. discloses switching component containing a series switch (element 416) and shunt switch (element 418) for transmission of data from upstream transmitter (element 406) to upstream channel; the switches can be enabled or disabled through a control line (element 412) from upstream transmitter.

See column 8, lines 11-36, lines 43-62. Switch component is used to prevent noise leakage from reaching upstream channel by alternating the opening and closing of the two switches depending on whether there is a signal burst. See column 8, lines 43-46. At the time the invention was made it would have been obvious to modify Conroy et al.

Art Unit: 2666

to have switching component located proximate to transmission medium of Schwartzman et al. One of ordinary skill in the art would be motivated to do this to prevent noise leakage from reaching upstream channel.

Regarding claims 9-10, the claimed transmission medium is a twisted pair wire which is a telephone line is disclosed by Conroy et al. by telephone line (Figure 1, element 11). See column 1, lines 36-45.

Response to Arguments

6. Applicant's arguments with respect to claims 1-10 have been considered but are most in view of the new ground(s) of rejection.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Melanie Jagannathan whose telephone number is 571-272-3163. The examiner can normally be reached on Monday-Friday from 8:00 a.m.-4:30 p.m..

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Seema Rao can be reached on 571-272-3174. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Application Number: 09/825,638 Page 10

Art Unit: 2666

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

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